WHAT IS CLAIMED IS:

1. An information processing apparatus comprising:

a drawing omission determination unit that determines whether drawing process corresponding to a graphical drawing instruction, out of a plurality of graphical drawing instructions, can be omitted based on a drawing attribute of a pattern corresponding to the graphical drawing instruction:

a selection unit that makes the graphical drawing instruction invalid if the drawing omission determination unit determines that the drawing process can be omitted, and makes other graphical drawing instructions valid; and

an output unit that outputs to an information processing apparatus the other graphical drawing instructions to get an image corresponding to the other graphical drawing instructions printed.

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2. The information processing apparatus according to claim 1, wherein

the graphical drawing instruction is described in a page description language that includes a basic graphical drawing instruction which specifies a pattern to be drawn, and a drawing attribute instruction which specifies the drawing attribute.

- 3. The information processing apparatus according to claim 1, wherein
- 25 the drawing attribute includes information about a color of a

pattern concerning the graphical drawing instruction and a method for performing the drawing process.

4. The information processing apparatus according to claim 3,5 wherein

the drawing omission determination unit determines that the drawing process can be omitted when the drawing attribute of a pattern concerning the graphical drawing instruction does not change the contents of a memory at a drawing destination before and after the drawing process regardless of the contents of the memory.

5. The information processing apparatus according to claim 4, wherein

the drawing omission determination unit determines that the drawing process can be omitted when it is determined from the drawing attribute of a pattern concerning the graphical drawing instruction and a method for performing the drawing process that the contents of a memory at a drawing destination are not changed before and after the drawing process regardless of the contents of the memory.

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6. The information processing apparatus according to claim 5, wherein

the drawing omission determination unit determines that the drawing process can be omitted when the color density is the lowest and also when the method is a logical sum (OR) among the drawing

attributes of a pattern concerning the graphical drawing instruction.

7. The information processing apparatus according to claim 1, wherein

the drawing omission determination unit determines that the drawing process can be omitted when a memory at a drawing destination is in an initialized state.

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8. The information processing apparatus according to claim 1,

further comprising an output status flag that indicates whether the

selection unit has already set a certain graphical drawing instruction

valid, wherein

the drawing omission determination unit determines whether the drawing process can be omitted based on the state of the output status flag.

9. The information processing apparatus according to claim 8, wherein

the drawing omission determination unit determines that the drawing process can be omitted when the output status flag indicates that the graphical drawing instruction is not yet set valid, and also when the drawing attribute of a pattern concerning the graphical drawing instruction does not change the contents of a memory at a drawing destination before and after the drawing process when the memory is in an initialized state even when the drawing process is carried out..

10. The information processing apparatus according to claim 8, wherein

the drawing omission determination unit determines that the drawing process can be omitted when the output status flag indicates that the graphical drawing instruction is not yet set valid, when the color density is the lowest and also when a method for performing the drawing process is a replacement (SET) among the drawing attributes of a pattern concerning the graphical drawing instruction.

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11. The information processing apparatus according to claim 8, wherein

the drawing omission determination unit determines that the drawing process can be omitted when the output status flag indicates that the graphical drawing instruction is not yet set valid, when the color density is the lowest and also when a method for performing the drawing process is a logical sum (OR) among the drawing attributes of a pattern concerning the graphical drawing instruction.

12. The information processing apparatus according to claim 8, wherein

the drawing omission determination unit determines that the drawing process can be omitted when the output status flag indicates that the graphical drawing instruction is not yet set valid, when the color density is the lowest and also when a method for performing the drawing process is an exclusive logical sum (XOR) among the drawing

attributes of a pattern concerning the graphical drawing instruction.

13. The information processing apparatus according to claim 8, wherein

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the drawing omission determination unit determines that the drawing process can be omitted when the output status flag indicates that the graphical drawing instruction is not yet set valid, when a method of the drawing process is a logical product (AND) among the drawing attributes of a pattern concerning the graphical drawing instruction.

14. The information processing apparatus according to claim 8, wherein

the output status flag indicates whether the selection unit has already set a certain graphical drawing instruction valid for each graphical drawing instruction concerning an image for one page.

15. The information processing apparatus according to claim 8, wherein

one page is divided into specific number of determination regions, and the output status flag is provided for each determination region, and

the drawing omission determination unit determines whether the drawing can be omitted based on the status of the output status flag for each determination region to which a drawing region concerning the

graphical drawing instruction belongs.

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16. The information processing apparatus according to claim 15, wherein

the determination regions are decided based on bands.

17. The information processing apparatus according to claim 1, wherein

when the graphical drawing instruction concerns a pattern of a

color, the drawing omission determination unit determines whether the
drawing process can be omitted for each color plane of the color.

18. The information processing apparatus according to claim 1, wherein

the drawing omission determination unit determines whether the drawing process can be omitted only when a pattern concerning the graphical drawing instruction is a graphic pattern.

19. The information processing apparatus according to claim 1,20 wherein

when a pattern concerning the graphical drawing instruction is an image pattern, the drawing omission determination unit detects continuous pixels of the same color within the image pattern, and determines whether the drawing process can be omitted for each portion of continuous pixels.

20. The information processing apparatus according to claim 1, wherein

when a pattern concerning the graphical drawing instruction is an image pattern, the drawing omission determination unit determines whether the drawing process can be omitted of the image pattern in a word length unit.

- 21. The information processing apparatus according to claim 1, wherein
- to the image formation apparatus one-by-one.
 - 22. The information processing apparatus according to claim 1, further comprising a drawing data memory that stores the other graphical drawing instructions, wherein

the output unit outputs the other graphical drawing instructions stored in the drawing data memory to the image formation apparatus altogether.

20 23. An image formation apparatus comprising:

a page memory;

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a drawing omission determination unit that determines whether drawing process corresponding to a graphical drawing instruction, out of a plurality of graphical drawing instructions, can be omitted based on a drawing attribute of a pattern corresponding to the graphical drawing

instruction:

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a selection unit that makes the graphical drawing instruction invalid if the drawing omission determination unit determines that the drawing process can be omitted, and makes other graphical drawing instructions valid;

a drawing unit that performs the drawing process to draws an image onto the page memory based on the other graphical drawing instructions; and

an image formation unit that forms an image onto a recording

medium paper based on the image on the page memory.

- 24. The image formation apparatus according to claim 23, wherein the graphical drawing instruction is described in a page description language that includes a basic graphical drawing instruction which specifies a pattern to be drawn, and a drawing attribute instruction which specifies the drawing attribute.
- The image formation apparatus according to claim 23, wherein the drawing attribute includes information about a color of a
 pattern concerning the graphical drawing instruction and a method for performing the drawing process.
 - 26. The image formation apparatus according to claim 25, wherein the drawing omission determination unit determines that the drawing process can be omitted when the drawing attribute of a pattern

concerning the graphical drawing instruction does not change the contents of a memory at a drawing destination before and after the drawing process regardless of the contents of the memory.

- The image formation apparatus according to claim 26, wherein the drawing omission determination unit determines that the drawing process can be omitted when it is determined from the drawing attribute of a pattern concerning the graphical drawing instruction and a method for performing the drawing process that the contents of a memory at a drawing destination are not changed before and after the drawing process regardless of the contents of the memory.
- The image formation apparatus according to claim 27, wherein the drawing omission determination unit determines that the drawing process can be omitted when the color density is the lowest and also when the method is a logical sum (OR) among the drawing attributes of a pattern concerning the graphical drawing instruction.
- 29. The image formation apparatus according to claim 23, wherein the drawing omission determination unit determines that the drawing process can be omitted when a memory at a drawing destination is in an initialized state.

30. The image formation apparatus according to claim 23, further comprising an output status flag for each graphical drawing instruction, wherein the selection unit sets an output status flag corresponding a certain graphical drawing instruction to set that graphical drawing instruction valid, wherein

the drawing omission determination unit determines whether the drawing process can be omitted based on the state of the output status flag.

- The image formation apparatus according to claim 30, wherein the drawing omission determination unit determines that the drawing process can be omitted when the output status flag is not set and when the drawing attribute of a pattern concerning the graphical drawing instruction does not change the contents of a memory at a drawing destination before and after the drawing process when the memory is in an initialized state even when the drawing process is carried out.
- 32. The image formation apparatus according to claim 30, wherein
 the drawing omission determination unit determines that the
 drawing process can be omitted when the output status flag is not set,
 when the color density is the lowest, and when a method for performing
 the drawing process is a replacement (SET) among the drawing
 attributes of a pattern concerning the graphical drawing instruction.

- The image formation apparatus according to claim 30, wherein the drawing omission determination unit determines that the drawing process can be omitted when the output status flag is not set, when the color density is the lowest and also when a method for performing the drawing process is a logical sum (OR) among the drawing attributes of a pattern concerning the graphical drawing instruction.
- 34. The image formation apparatus according to claim 30, wherein the drawing omission determination unit determines that the drawing process can be omitted when the output status flag is not set, when the color density is the lowest, and when a method for performing the drawing process is an exclusive logical sum (XOR) among the drawing attributes of a pattern concerning the graphical drawing instruction.
 - 35. The image formation apparatus according to claim 30, wherein the drawing omission determination unit determines that the drawing process can be omitted when the output status flag is not set and when the modification method is a logical product (AND) among the drawing attributes of a pattern concerning the graphical drawing instruction.

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The image formation apparatus according to claim 30, wherein the output status flag indicates whether a certain graphical drawing instruction has been made valid for each graphical drawing instruction concerning an image for one page.

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37. The image formation apparatus according to claim 30, further comprising a dividing unit that divides one page into a specific number of determination regions, and the output status flag is provided for each determination region, and

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the drawing omission determination unit determines whether the drawing can be omitted based on the status of the output status flag for each determination region to which a drawing region concerning the graphical drawing instruction belongs.

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38. The image formation apparatus according to claim 37, wherein the dividing unit divides the one page into the determination regions based on bands.

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39. The image formation apparatus according to claim 23, wherein the graphical drawing instruction concerns a pattern of a color, and the drawing omission determination unit determines whether the drawing process can be omitted for each color plane of the color.

40. The image formation apparatus according to claim 23, wherein the drawing omission determination unit determines whether the drawing process can be omitted when the graphical drawing instruction corresponds to a graphic pattern.

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- 41. The image formation apparatus according to claim 23, wherein when a pattern concerning the graphical drawing instruction is an image pattern, the drawing omission determination unit detects continuous pixels of the same color within the image pattern, and determines whether the drawing process can be omitted for each portion of continuous pixels.
- 42. The image formation apparatus according to claim 23, wherein when a pattern concerning the graphical drawing instruction is an image pattern, the drawing omission determination unit determines whether the drawing process can be omitted of the image pattern in a word length unit.
- The image formation apparatus according to claim 23, wherein the output unit outputs the other graphical drawing instructions to the image formation apparatus one-by-one.
 - 44. The image formation apparatus according to claim 23, further comprising a drawing data memory that stores the other graphical drawing instructions, wherein

the output unit outputs the other graphical drawing instructions stored in the drawing data memory to the image formation apparatus altogether.

5 45. The image formation apparatus according to claim 24, further comprising:

a receiving unit that receives the drawing instructions from an external source; and

an interpreter that converts the drawing instructions into the
graphical drawing instructions of a format which is suitable for the
drawing process.

46. A drawing processing method comprising:

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determining whether drawing process corresponding to a

plurality of graphical drawing instructions can be omitted based on a

drawing attribute of a pattern corresponding to the graphical drawing
instruction; and

making the graphical drawing instruction invalid if it is determined at the determining that the drawing process can be omitted, and making other graphical drawing instructions valid.

47. The drawing processing method according to claim 46, wherein the determining includes determining that the drawing process can be omitted when the drawing attribute of a pattern concerning the graphical drawing instruction does not change the contents of a memory

at a drawing destination before and after the drawing process regardless of the contents of the memory.

- the determining includes determining that the drawing process can be omitted when it is determined from the drawing attribute of a pattern concerning the graphical drawing instruction and a method for performing the drawing process that the contents of a memory at a drawing destination are not changed before and after the drawing process regardless of the contents of the memory.
 - 49. The drawing processing method according to claim 46, wherein the determining includes determining that the drawing process can be omitted when a memory at a drawing destination is in an initialized state.

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- 50. The drawing processing method according to claim 46, wherein the determining includes determining whether the drawing process can be omitted based on a state of an output status flag that is set when a certain graphical drawing instruction is made valid.
 - 51. The drawing processing method according to claim 51, wherein the determining includes determining that the drawing process can be omitted when the output status flag is not set and when the drawing attribute of a pattern concerning the graphical drawing

instruction does not change the contents of a memory at a drawing destination before and after the drawing process when the memory is in an initialized state even when the drawing process is carried out..

- 5 52. The drawing processing method according to claim 51, wherein the output status flag indicates whether a certain graphical drawing instruction has been made valid for each graphical drawing instruction concerning an image for one page.
- 10 53. The drawing processing method according to claim 51, further comprising dividing one page into a desired number of determination regions, wherein the output status flag is provided in each determination region, and

the determining includes determining whether the drawing can
be omitted based on the status of the output status flag for each
determination region to which a drawing region concerning the
graphical drawing instruction belongs.

- 54. The drawing processing method according to claim 53, wherein the dividing includes dividing the one page into the determination regions based on bands.
 - 55. The drawing processing method according to claim 46, wherein the graphical drawing instruction concerns a pattern of a color, and the determining includes determining whether the drawing process

can be omitted for each color plane of the color.

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- 56. The drawing processing method according to claim 46, wherein the graphical drawing instruction corresponds to an image pattern, and the determining includes detecting continuous pixels of the same color within the image pattern, and determining whether the drawing process can be omitted for each portion of continuous pixels.
- 57. The drawing processing method according to claim 46, wherein the graphical drawing instruction corresponds to an image pattern, and the determining includes determining whether the drawing process can be omitted from the image pattern in a word length unit.
- 58. A computer program that makes a computer execute:

 determining whether drawing process corresponding to a

 plurality of graphical drawing instructions can be omitted based on a

 drawing attribute of a pattern corresponding to the graphical drawing
 instruction; and

making the graphical drawing instruction invalid if it is

determined at the determining that the drawing process can be omitted,
and making other graphical drawing instructions valid.

59. The computer program according to claim 58, wherein the determining includes determining that the drawing process can be omitted when the drawing attribute of a pattern concerning the

graphical drawing instruction does not change the contents of a memory at a drawing destination before and after the drawing process regardless of the contents of the memory.

- 5 60. The computer program according to claim 59, wherein the determining includes determining that the drawing process can be omitted when it is determined from the drawing attribute of a pattern concerning the graphical drawing instruction and a method for performing the drawing process that the contents of a memory at a drawing destination are not changed before and after the drawing process regardless of the contents of the memory.
- The computer program according to claim 58, wherein the determining includes determining that the drawing process
 can be omitted when a memory at a drawing destination is in an initialized state.
- The computer program according to claim 58, wherein the determining includes determining whether the drawing
 process can be omitted based on a state of an output status flag that is set when a certain graphical drawing instruction is made valid.
 - 63. The computer program according to claim 62, wherein the determining includes determining that the drawing process can be omitted when the output status flag is not set and when the

drawing attribute of a pattern concerning the graphical drawing instruction does not change the contents of a memory at a drawing destination before and after the drawing process when the memory is in an initialized state even when the drawing process is carried out..

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64. The computer program according to claim 62, wherein the output status flag indicates whether a certain graphical drawing instruction has been made valid for each graphical drawing instruction concerning an image for one page.

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The computer program according to claim 62, further comprising dividing one page into a desired number of determination regions, wherein the output status flag is provided in each determination region, and

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the determining includes determining whether the drawing can be omitted based on the status of the output status flag for each determination region to which a drawing region concerning the graphical drawing instruction belongs.

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66. The computer program according to claim 65, wherein the dividing includes dividing the one page into the determination regions based on bands.

67. The computer program according to claim 58, wherein the graphical drawing instruction concerns a pattern of a color, and the determining includes determining whether the drawing process can be omitted for each color plane of the color.

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68. The computer program according to claim 58, wherein the graphical drawing instruction corresponds to an image pattern, and the determining includes detecting continuous pixels of the

same color within the image pattern, and determining whether the drawing process can be omitted for each portion of continuous pixels.

69. The computer program according to claim 58, wherein the graphical drawing instruction corresponds to an image pattern, and the determining includes determining whether the drawing

process can be omitted from the image pattern in a word length unit.